



MONTGOMERY COUNTY FIRE AND RESCUE SERVICE DRIVER/OPERATOR TRAINING PROGRAM

Incumbent Tractor Drawn Aerial Performance Check-Out for 2005/2007 Pierce

Driver Name: _____ ID# _____ Date _____

Station/Shift/Dept: _____ OIC _____

Unit # Make: Pierce Year: SN-

Date Completed:

- _____ 1. Driver will identify and explain the function/operation of all in cab controls and tiller cab.
- a. PTO Controls / Aerial Master
 - b. Generator Activation
 - c. Gauges and switches
 - d. Audible and visual warning alarms
- _____ 2. Identify the GVWR and Axle Weight Ratings
- a. Identify vehicle height, length and width with/without stabilizers fully deployed
- _____ 3. Perform the Cab Tilt procedure.
- **driver must insure the cab is raised high enough to engage the safety and then lower just enough to secure the safety without lowering onto the piston collar.**
- _____ 4. Complete a Pre Trip inspection
- a. Identify all fluid check points and engine components

- _____ 5. Demonstrate start up procedure
- **batteries on, ignition, tiller person**
 - **seated and push interlock for start, start engine**
- _____ 6. Demonstrate proper set-up and stowing procedure for aerial operations.
- a. Identify all controls
 - b. Procedure for stabilizer deployment
 - * **PTO engaged, aerial master, insure area is clear for stabilizer deployment, activate out switches for stabilizers, once all the way out then activate down switches until both are planted (both green lights will illuminate, activate down switches for low side first to bring into the green area of the level indicators and then both down switches until bulge of the tire is released.**
 - Then divert the oil and lock the turntable with the lever in front of turntable.**
 - Verify within the green on both level indicators**
 - STOWING – requires stowing monitor with visual checks insuring the monitor is completely stowed and will miss the tiller cab and once bed in the boom support increase pressure slightly**
 - c. Transfer operation from stabilizer to aerial operation from both sides
 - d. Identify all “Safety Warning Labels & Decals

_____ 7. Describe the meaning of the load charts and the restrictions of the ladder.

Based on 0 deg, full ext.

- a. Waterway Dry and with 50 mph wind cond.
- b. Charged waterway with 50 mph wind cond.
- c. Waterway with ¼” ice build up
- d. Explain the level indicators

. Green represents 0-5 degrees

Yellow represents 5.1 to 8 degrees Red

Represents >8 degrees.

Green = Full Capacity Yellow = ½

Capacity Red = Zero Capacity

_____ 8. Aerial Operations

- a. Identify the aerial reach and tip load at 75, 45 and 0 degrees.

*** 75 degrees = 22’5”**

45 degrees = 65’8”

0 degrees = 94’2”

- b. Identify the GPM rating for the aerial
1000 gpm
- c. Explain the recommended usage if the high idle

High idle is used whenever more than one hydraulic controls are used to increase the oil flow. Also when stowing the monitor as it is voltage sensitive.

_____ 9. Identify & explain all gauges, switches, controls on the pedestal.

- a. Raise/Lower control
- b. Extension/Retraction control
- c. Rotation control
- d. Nozzle pattern control
- e. Nozzle left/right switch
- f. Nozzle up/down switch

- g. Emergency Power Unit
- h. High Idle switch
- i. Procedure for stowing the monitor
- j. Rung alignment light
- k. Hydraulic pressure gauge
- l. Intercom
- m. 12 vt lighting switches
- n. 120 vt. outlet
- o. Cable timing marks
- p. arrows for turntable alignment

- g. The EPU can only run for 30 minutes
Then must cool down for 30 min.**
- k. Hydraulic pressures are system, bias,
brake release. 3000, 450-500,2100psi**
- o. 1” allowable from the base section mark**

- _____ 10. Identify locations & explain the override operations
- a. Emergency Power Unit
 - b. Manual Stabilizer valves
 - c. Rotation override
 - d. Lowering ladder in bed override

- _____ 11. Explain trouble shooting procedures for
- a. Stabilizer switches do not operate
 - b. Pedestal controls are not active
 - c. Aerial will not rotate
 - d. Ladder will not lower all the way in the boom support
 - e. Emergency Power Unit not functioning
 - f. Stabilizers raise off the ground during aerial operations

- _____ 12. Demonstrate the procedure for the pinable waterway
- a. Where will the default position be
 - * **Upper mid section**
 - b. Explain the reasons why the waterway will not engage and lock in both positions
 - * **cable timing out of adjustment or not fully retracted**
 - c. Wheel valve at monitor and its default position
 - * **Open**
 - d. Procedure for the aux 2 1/2" water outlet
 - * **Close monitor waterway valve and open auxiliary gate valve**
 - e. Explain the safety concerns for waterway operations
 - Do not retract aerial while flowing Water**
- _____ 13. Driver will demonstrate the overall operation of the generating plant.
- a. Identify generating capacity
 - b. Check fluid in reservoir
 - c. Panel box and associated gauges and meters
 - d. Operation of all flood lights and outlets
 - e. Operation of portable tripods
 - f. Explain the differences of the junction boxes
 - * **Each junction box has ground fault reset able Fuses at the end of the box with one outlet 240 volt.**

Practical skills

Date Completed

- _____ 1. Demonstrate proficiency driving cone course exercises:
- a. Straight line diminishing clearance
 - b. Alley dock
 - c. Serpentine
 - d. Left/Right turn
- _____ 2. Demonstrate proficiency driving 2 hours road driving
- a. Day driving on designated road course
 - b. Night driving on designated road course
 - c. Demonstrate 2 hour tiller driving time
- _____ 3. Demonstrate proficiency skills operating waterway and stowing procedures.
- _____ 4. Demonstrate onboard generator operations
- _____ 5. Demonstrate the procedure for stokes basket operation
- _____ 6. Demonstrate proficiency at spotting aerial for:
- a. Roof operations
 - b. Rescue from a window
 - c. Master stream operations for exposure protection